REMARKS

The objections, rejections and comments of the Examiner set forth in the Office Action dated September 3, 2003 have been carefully reviewed by the Applicants.

The drawings are objected to under 37 CFR 1.83(a) for failing to show every feature specified in the Claims. Specifically, the drawings fail to show a page buffer and pre-charge registers. In response, Figure 6 has been amended to show pre-charge buffers 624 within flash memory 620, and a page buffer 622 within RAM 622. Support for the amendment of Figure 6 is provided at page 4, lines 14-17, and at page 13m lines 9-12. An amended Figure 6 is attached.

Claims 20 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, there is insufficient antecedent basis for "said device." In response, Claim 20 has been canceled, and "said device" in Claim 21 has been changed to "said first multi level cell flash memory."

Claims 1, 6 and 14 are currently rejected under 35 U.S.C. 102(b) as being anticipated by Hasbun et al. (US 5936884). Claims 2, 7-13, 15-25 are currently rejected under 35 U.S.C. 103(a) as being unpatentable over Hasbun et al. (US 5936884). Claim 3 is currently rejected under 35 U.S.C. 103(a) as being unpatentable over Hasbun et al. (US 5936884) in view of Im (US 2003/0016562).

In response to the above rejections, independent Claims 1, 6, 14, 18 and 19 have been amended to patentably distinguish the present claimed invention from Hasbun and the combination of Hasbun and Im. Claims 7, 10, 20, and 23 have been canceled.

Claim 1 has been amended to recite a multi-level memory cell having one erased state and three programmed states that is programmable by writing two bits of information to the cell. As taught by Hasbun, a multi-level memory cell having one erased state and three programmed states would be programmed by writing one bit of information, not two.

Hasbun teaches the partitioning of storage levels into groups and writing a number of bits into a group that is less than the maximum number of bits that could normally be written into the

cell. Hasbun achieves sequential writes without erasing by logically subdividing a multi-level cell into a number logical cells that are sequentially written to until they have all been programmed. After all of the logical cells have been programmed, they are renewed by erasing the physical memory cell containing the logical cells.

Claim 6 has been amended to recite reading existing cell storage conditions from said device and combining said existing cell storage conditions with programming information to produce new information;. Hasbun does read existing cell storage conditions and combine with programming information. Hasbun relies on a "tracking mechanism" " (column 4, lines 4-45) or "group indicator" (column 8, lines 59-67) to determine the level or levels for programming.

Claim 14 has been amended to recite a multi-level memory cell having one erased state and three programmed states that is programmable by writing two bits of information to the cell. As taught by Hasbun, a multi-level memory cell having one erased state and three programmed states would be programmed by writing one bit of information, not two.

Claim 18 has been amended to recite a multi-level memory cell having one erased state and three programmed states that is programmable by writing two bits of information to the cell. As taught by Hasbun, a multi-level memory cell having one erased state and three programmed states would be programmed by writing one bit of information, not two.

Claim 19 has been amended to recite reading existing cell storage conditions from said device and combining said existing cell storage conditions with programming information to produce new information;. Hasbun does read existing cell storage conditions and combine with programming information. Hasbun relies on a "tracking mechanism" " (column 4, lines 4-45) or "group indicator" (column 8, lines 59-67) to determine the level or levels for programming.

Independent Claims 1, 6, 14, 18 and 19 have been amended to include a limitation that is neither taught nor suggested by Hasbun and Im, separately or in combination. In summary, Applicant assert that Claims 1-6, 8-9, 11-19, 21-22, and 24-25 are in condition for allowance and earnestly solicit such action by the Examiner.

Please charge any additional fees or apply any credits to our PTO deposit account number: 23-0085.

Respectfully submitted,

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Date: December 3, 2003

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PTO/SB/21 (05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/062,928
Filing Date	February 1, 2002
First Named Inventor	Uesaka, Kouichi
Art Unit	2858
Examiner Name	James C. Kerveros
Total Number of Pages in This Submission	
Attorney Docket Number	16869S-032510US

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☒ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☒ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
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- ☒ Other Enclosure(s) *(please identify below)*:

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Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Steve Y. Cho Reg. No. 44,612
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On June 26, 2003

TOWNSEND and TOWNSEND and CREW LLP

By:

PATENT
Attorney Docket No.: 16869S-032510US
Client Ref. No.: E6083-01 EW

#4 1/2
7/9/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Koichi Uesaka, et al.

Application No.: 10/062,928

Filed: February 1, 2002

For: INQUIRY METHOD OF THE SOURCE WHICH GENERATES ELECTROMAGNETIC WAVE

Examiner: Kerveros, James C.

Technology Center/Art Unit: 2858

AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed March 27, 2003, please enter the following amendments and remarks:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Amendments to the Drawings begin on page 6 of this paper and include an attached replacement sheet.

Remarks/Arguments begin on page 7 of this paper.

Amendments to the Specification:

Please replace the paragraph on page 35, Abstract section, with the following rewritten paragraph:

-- A recording medium includes a computer readable program for controlling a computer. The program comprises (a) code for calculating a current distribution by using a strength and phase of magnetic field measured from a measuring object; (b) code for calculating a first electric field strength at a measuring point from ~~said~~ the current distribution; (c) code for calculating a second electric field strength at ~~said~~ the measuring point by using a current distribution of a predetermined position on a part of ~~said~~ the current distribution of ~~said~~ the measuring object; and (d) code for calculating a ratio related to ~~said~~ the first electric field strength in association with ~~said~~ the second electric field strength. --

A'

Le 8/14/03
Le 8/14/03

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-4. Canceled.

5. (New) A recording medium including a computer readable program for controlling a computer, said program comprising:

(a) code for calculating a current distribution by using a strength and phase of magnetic field measured from a measuring object;

(b) code for calculating a first electric field strength at a measuring point from said current distribution;

(c) code for calculating a second electric field strength at said measuring point by using a current distribution of a predetermined position on a part of said current distribution of said measuring object; and

(d) code for calculating a ratio related to said first electric field strength in association with said second electric field strength.

6. (New) A recording medium according to claim 5, wherein said code for (d) further includes:

code for calculating a difference between said first and second electric field strengths; and

code for calculating a ratio of said difference in relation to said first electric field strength.

7. (New) A recording medium according to claim 5, wherein said code for (a) further includes:

code for inner-producing with a measured-magnetic field composite-complex vector and a calculated-magnetic field composite-complex vector.

8. (New) A recording medium according to claim 5, wherein said program further includes:

code for displaying said current distribution with colors in response to said ratio.

9. (New) A recording medium according to claim 8, wherein said code for displaying said current distribution includes code for displaying said current distribution in overlap with an actual circuit pattern.

10. (New) A recording medium according to claim 5, wherein said program further comprising:

code for editing said current distribution to calculate a third electric field strength from an edited current distribution.

11. (New) A recording medium including a computer readable program for controlling a computer, said program comprising:

code for calculating a first electric field strength at a measuring point from a current distribution, said current distribution having been obtained by using a strength and phase of a magnetic field measured from an object;

code for calculating a second electric field strength from said current distribution formed in accordance with externally inputted data; and

code for calculating a ratio related to said first electric field strength in association with said second electric field strength.

12. (New) The recording medium according to claim 11, wherein said object is a measuring object.

13. (New) A recording medium including a computer readable program, said program comprising:

code for calculating a current distribution by using a strength and phase of magnetic field measured from an object being measured;

code for calculating a first electric field strength at a measuring point from said current distribution;

code for calculating a second electric field strength at said measuring point by using a current distribution of a predetermined position on a part of said current distribution of said object;

code for calculating a ratio related to said first electric field strength in association with said second electric field strength; and

code for calculating a difference between said first and second electric field strengths;

code for calculating a ratio of said difference in relation to said first electric field strength.

Amendments to the Drawings:

The attached sheet of drawings includes changes to Fig. 2. This sheet, which includes Fig. 2 replaces the original sheet including Fig. 2.

Attachment: Replacement Sheet